
LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 411

ARSENIC IN BAKING MATERIALS



NOTES AND COMMENTS.

Under this heading, as occasion arises, the Bulletins issued by this Department will contain, as an appendix, such comment as may seem necessary or advisable upon matters relating to the work of the Department in connection with the administration of the Adulteration Act, the Fertilizers Act, the Feeding Stuffs Act or the Proprietary Medicines Act.

It frequently happens that correspondents ask information regarding the above Acts, of such a nature that the matter in question possesses general interest, and comment upon it would prove acceptable and useful to others than the immediate questioner. In such cases the reply may find a place in these columns. For convenience of reference these notes will be numbered in series.

A. MCGILL,
Chief Analyst.

LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 411

ARSENIC IN BAKING MATERIALS

OTTAWA, July 29th, 1918.

GEO. W. TAYLOR, Esq.,
Asst. Deputy Minister of Inland Revenue.

SIR.—I beg to hand you a report upon the following classes of food materials, likely to contain phosphate of lime in their composition:

Baking Powders..	71 samples.
Self-raising Flour..	30 "
Cream of Tartar Substitutes..	12 "
So-called Egg Powders, etc..	39 "
Total..	152 "

In a recent report (1916-17) of the Medical Officer of the Local Government Board, London, England, Dr. A. W. J. MacFadden draws attention to the fact that in some 50 cases, Acid Calcium Phosphate, as used in Cream of Tartar substitutes, was found to contain excessive amounts of Arsenic, reaching 400 parts per million, and in one instance, 643 parts. On investigation it was found that all the firms producing the contaminated article were already aware of its character, and many of them had in their possession stocks of contaminated acid phosphate which had been returned to them, in consequence of the activities of the food inspectors. Instead of destroying this material, or employing it in uses where it could do no harm "it was found to be a common practice of manufacturers to dispose of acid phosphate which had turned out on their own analysis, to be considerably contaminated, by mixing it with another lot of the product which was free from, or only slightly contaminated with arsenic."

Acid calcium phosphate enters into the composition of most baking powders; and is largely employed in self-raising flours, pancake flours, cream of tartar substitutes, and other articles which are used as foods. Since sulphuric acid, which always contains arsenic is employed in its manufacture, it is to be expected that traces of arsenic will be found in acid calcium phosphate; and a tolerance of 5 parts per million

allowed by Order in Council of October, 1912 (G. 1048). The limit for baking powders is fixed at 2 parts per million, and although self-raising flours and egg powders are not specifically mentioned, it is reasonable to interpret this limit number as equally applying to them.

In my last report upon Baking Powders (see Bulletin No. 360, of January, 1917) the Arsenic content was not given, and the present report may be regarded as complementary to Bulletin No. 360.

It is satisfactory to know, as the result of the work now reported, that very few samples of the classes of food materials which are usually made with acid phosphate of lime, have been found to contain more than traces of arsenic. Only 6 samples are reported as yielding more than 1 part per million, and only one (1) sample is found to contain above 5 parts per million. This particular sample (No. 76259) is found to yield 25 parts per million, and must be regarded as adulterated. Its occurrence suffices to show the necessity for occasional inspection of phosphate-containing materials; and it is particularly at a time like the present, when chemical manufacturers are being pushed to the limit, that the use of raw material, not properly purified, may be expected.

I beg to recommend publication of this report as Bulletin No. 411.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

BULLETIN No. 411—ARSENIC IN BAKING MATERIALS.

Date of Collection	Nature of Sample	Name and Address of Vendor	Cost	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	Remarks and Opinion of the Chief Analyst.
				Quantity	Manufacturer			
1918.	1 Self Raising Flour	83342 H. W. Richardson, Wind. 3 lbs	45 F. F. Dalley Co., A. & W. Smith, Halifax.	"	Royal Hygienic	None	83342	
"	1 Baking Powder	83343 G. N. Vaughan, Windsor, N.S.	75 Payzant & King, Mfrs., Halifax.	"	Maple Leaf Brand	Trace	83343	
"	1 Self Raising Flour	83344 " N.S.	54 White Swan C. O., Ltd., Toronto.	"	"	None	83344	
"	12 Baking Powder	83345 Corkum & Ritcey, Ltd., Halifax.	30 Coleman B. P. C. Co., Brockville.	"	Coleman's Special	0-1	83345	
"	12 Egg Substitute	83346 " "	45 S. H. Ewing & Son, Montreal.	"	Club Custard Egg Powder.	None	83346	
"	12 Baking Powder	83347 R. B. Seeton & Co., Halifax.	30 A. W. Gillett Co., Ltd., Toronto.	"	Magic Brand	0-2	83347	
"	12 Cream of Tartar Substitute	83348 W. H. Schwartz & Sons, Halifax.	21 Vendors	"	Crème Tartine	0-25	83348	
"	12 Baking Powder	83349 Wm. Moore, Halifax	12 W. M. D. Pearman, Mfrs., Halifax.	"	Woodhill's Brand	0-2	83349	
"	13 "	83350 S. Thomson, Dartmouth, N.S.	36 McLaren's Ltd., Hamilton.	"	"	0-2	83350	
"	13 Egg Powder	83351 "	75 The Imperial Co., Quebec.	"	Hauld Bros., Halifax.	None	83351	

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR

Date of Collection	Nature of Sample	Name and Address of Vendor	Cost	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	Remarks and Opinion of the Chief Analyst.
				Quantity	Manufacturer			
Jan. 17	17 Baking Powder	8000 Wilfrid Brisebois, St. Felix 3 lbs.	90 E. W. Gillett Co., Toronto.	"	"	Less than one.	8000	
"	17 Self-Raising Flour	8010 Albert Bellercose, St. Felix 1 car. Valois.	30 Brodie & Harvie, Valois.	"	"	"	8010	

DISTRICT OF THREE RIVERS—Dr. V. P. LAVALLEE, INSPECTOR.

Jan.	22	Egg Powder	74378	E. St. Hilaire, St. Montreal.	2236 Clark " "	3 pugs	30 La Quebec. 30 C. T. Morrissey Co. Chicago.	Cie Imperial, Chicago. Victor R. P. Mills.	None.....	74570
"	22	Eggine	74379	"	"	"	"	"	"	74579
"	22	Baking Powder	74380	D. Desjardins, St. Montreal.	107 Rue Henry 3 times.				Less than one	74580

DISTRICT OF MONTREAL.—J. J. COSTIGAN, INSPECTOR.

BULLETIN No. 411—ARSENIC IN BAKING MATERIALS.

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									Manufacturer.	Furnisher.	

DISTRICT OF MONTREAL—Concluded.

1918	Jan. 23	Baking Powder.	74381 A. Mireault, 116 Mt. Royal 3 tins. Ave. E., Montreal.	36	Ocean	Less than one.	74381
"	24	Egg Powder...	74382 " 3 pkgs	30	Le Moulin Economique.	.....	None.	74382
"	24	Economic Pow-	74383 Grainger & Collings, 151 St. E., Montreal.	45	The Economic Mills.	.....	" ..	74383
"	24	Self Raising	74384 J. B. Valiquette, 16 Rachel St. E., Montreal.	90	Lariviere Freres.	.....	Less than one.	74384
"	24	Flour.	74385 A. Barabell, 1197 St. Dominiqne St., Montreal.	24	King Brand	.....	" ..	74385
"	24	Baking Powder.	74386 D. Endleher, 1129 St. Dominiqne St., Montreal.	16	Diamond Starch Co.	.....	1	74386
"	29	Tartarine.....	74387 National Coffee & Spice Co., St. Paul St., Montreal.	25	Vendors.....	.....	Less than one.	74387

DISTRICT OF OTTAWA—J. A. RICKY, INSPECTOR.

Jan.	18	Egg Powder,	80520 L. R. Mulligan, Billing's 3 tins. Bridge.	45	Rola Products, Montreal.	.....	Rola quality con-	None.	80520
"	18	Teon.....	80522 " "	3	The E. Kenberg Co., Cortland, N.Y.	.....	Self Raising Flour.	Less than one.	80522
"	22	Baking Powder..	80523 O. Lemieux, Rue du Pont, 3 tins. Hull.	75	R. W. Gillett Co., Toronto.	.....	Magic.....	" ..	80523

181000.....	"	one	80629
22 Baking Powder...	30529 O. Lemieux, Rue du Pont, Hull.	"	
"	Hull.	"	

22	"	90531 J. O. Charron, Rue Papineau, Hull.	3 "
22	Self Raisin Flour.	90535 (Geo.) Monpetit, Le Duc and 3 pigs Hotel de Ville, Hull.	3 "
"	23 Pancake Flour.	90534 T. J. Somerville, 3rd Ave. and Bank St., Ottawa.	3 "
"	23 Tartaric.	90536 Cowie & More, 736 Bank St., Ottawa.	3 "
"	23 Egg Substitute.	90537 H. Armstrong, 769 Bank St., Ottawa.	3 tins.
"	24 Pancake Flour..	90538 Halpenny & Co., 501 Bank St., Ottawa.	3 pigs
"	24 Baking Powder..	90540	3 "
"	25 Pastry Flour....	90541 Eastman's Grocery, 71 Preston St., Ottawa.	3 " 3 tins.
"	25 Egg Powder....	90542	"
"	25 Coko Flour....	90543 Houle & Richard, 111 Clarence St., Ottawa.	3 pigs
"	25 Creamat....	90546	"
"	28 Biscuit Flour....	90549 Stratton & Co., Lyon St., Ottawa.	3 "
"	28 Baking Powder..	90551 J. Bambrick, George St., Ottawa.	3 tins.
"	29 Creotar....	90554 J. H. Shoultis, Herridge St., Ottawa.	3 pigs
75	L. H. Major & Sons, Ottawa.	60 Lariviere Freres, Ltd., Montreal.	3 cans
		54 Aunt Jenima Mills Co., St. Joseph, Miss.	3 "
		30 The Lister Pure Food Co., Ltd., Toronto.	3 "
		75 Alfred Bird & Sons, Ltd., London, Eng.	3 "
		45 White Swan S. & C. Co., Ltd., Toronto.	3 "
		76 The McLaren B. P. Ltd., Toronto.	3 "
		46 B. O. Products Ltd., Montreal.	3 "
		45 Edward G. Nation & Co., Ltd., Bristol, N.Y.	3 "
		30 The Coko Mfg. Co., Birmingham.	3 "
		30 McLaren's Ltd., Hamilton.	3 "
		54 White Swan S. & C. Co., Ltd., Toronto.	3 "
		45 Integrity Mills, Toronto.	3 "
		30 Bee Starach Co., Montreal.	3 "
		Warranted free from alum.	3 "
		Coko.	Less than one.
		Not for medicinal use.	80545
		White Swan.	80546
		Best.	80549
		Can be used for any purpose for which cream of tartar is used, and is absolutely pure.	80551
			80554

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Jan.	25	Baking Powder.	81072 Dalton Bros., 11 Front St. E., Toronto.	60 Vendors	Favorite.	Less than one.	81072
"	25	"	81073 R. B. Hayhoe & Co., 47 Colborne St., Toronto.	44 "	Hayhoe's.	"	81073
"	31	"	81131 The McGregor Harris Co., 3 pigs	24 "	J.M.I.	"	81131
"	31	"	81132 Pure Gold Mfg. Co., Ltd., 331 College St., Toronto.	21 "	Our 1900 Dairy.	"	81132

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								Quantity.	Egg	Cereals
DISTRICT OF TORONTO—Concluded.										
1918.	" 24 Egg Powders...	81081	N. Carmichael, 1158 Yonge St., Toronto.	75	Alfred Bird & Son, Ltd., Birmingham, Eng.	Concentrated Egg Substitute, not made from eggs.	Less than 81081 one.			
" 24	" "	81082	R. Higgins & Sons Ltd., 804 3 Yonge St., Toronto.	75	No Egg Co., Toronto	No-egg Egg Substitute.	None.....			81082
" 24	" "	81083	Barons Ltd., 728 Yonge St., Toronto.	75	Rose Lafamme Ltd., Montreal.	Rola Brand.....	"			81083
" 25	" "	81120	Canada Brokerage Ltd., 59 3 Front St. E., Toronto.	75	Roila Products, Montreal.	Egg Powder Compound.	"			81120
" 25	" "	81121	Armstrong Pafford Ltd., 36 3 Yonge St., Toronto.	25	A. N. Christy & Co., Newark.	Eggno. Egg Substitute artificially coloured.	"			81121
" 25	" "	81122	The Robt. Simpson Co., 3 Ltd., Queen & Yonge St., Toronto.	38	Slatcliffe & Bingham, Ltd., Cornbrook, Manchester.	Kkovah Egg Substitute.	Less than 81122 one.			81122
" 30	" "	81123	W. J. Houston, 2407 Dundas St. E., Toronto.	60	Parisia Products Co., Fort Erie.	No egg. Egg Substitute.	None.....			81123
" 30	" "	81124	Natter Bros., 1242 Bloor St., W., Toronto.	54	"	"	"			81124
" 31	" "	81125	G. H. Kerr, 408 Spadina Ave., Toronto.	15	E. J. Nation & Co., Ltd., Bristol.	Vendors.....	Comfort			81125
" 31	Baking Powder	81128	The Lister Pure Food Co., 3 cans	25	Loyal Canadian.					81128
Feb. 1	"	81134	White Swan Spices & Cereals 3 Ltd., 156 Pearl St., Toronto.	40	Teco.....					81146
" 1 Self Raising Flour		81145 F	Simpson & Son, 7341 Yonge St., Toronto.	18	The Ekenberg Co., Courtland, N.Y.					81145
Jan. 25 Cream of Tartar Substitute.		81089	Dalton Bros., 11 Front St. E., Toronto.	38	Vendors				2 ..	81089 Maximum limit for areaic.

" 31	"	" 81136 Wm. McCarren Harris Co., Ltd., 90 St. Lawrence St., Toronto.	15 President Ch. no. Co., St. Louis,
" 31	"	" 81137 The Lister Pure Food Co., Ltd., 1297 Queen St., W., Toronto.	25 Vendors
Feb. 1	"	" 81138 White Swan Spices & Cereals 3 cans	30 "
Jan. 24	Self Raising Flour.	81097 W. C. Cork, 1146 Yonge St., 1 pkge. Toronto.	15 Aunt Jenkins Mills Cc., St. Joseph, Mo., U.S.A.
" 31	"	" 81098 Diadem Flour Co., 391 Church St., Toronto.	13 Vendors
Feb. 1	"	" 81099 White Swan Spices & Cereals 1 " Ltd., 159 Pearl St., Toronto.	"
" 1	"	" 81144 "	13 "
			13 "

Packages are unlabelled and sold only.	Packages are labelled and sold only.	Less than 81136	Maximum limit for arsenic.
as Acid Phosphate to bakers only.	as Acid Phosphate to bakers only.	2 ..	81137 Maximum limit for arsenic.

DISTRICT OF HAMILTON—H. J. DAGER, ACTING INSPECTOR.

Jan. 16	Baking Powder.	81064 Lumsden Bros., 82 McNabb St., Hamilton.	70 Vendors	Purity.....	Less than 81064
" 17	"	" 81065 Wm. Carroll's Grocery, 943 John St., S. Hamilton.	54	Alliance	81065
" 18	"	" 81066 McLaren's Ltd., Park and Merrick Sts., Hamilton.	25 Vendors	Lakeside	2
" 18	"	" 81067 R. Doding, 288 York St., 3 " Hamilton.	36 1. X. L. Spice & Coffee Mills, Ltd., London.	Sweetheart	81066 Maximum limit for arsenic.
" 18	"	" 81068 Bard & Co., 229 Catherine 2 lbs. St., Hamilton.	5 Vendors	Bulk.....	Less than 81067
" 21	"	" 81069 S. Darch, 413 James St., N. 3 cans. Hamilton.	75 "	Maple Leaf.	one. "
" 22	"	" 81070 Wm. Smye, Jr., 75 Wellington St., Hamilton.	60 "	.....	81068
" 16	Egg Powder.	81071 Dalley Products Ltd., 753 " Hughson St., N. Hamilton.	60	Kitchen Queen.	"
" 13	"	" 81074 Bristol, Somerville & Co., 733 pkg Co., Ltd., Fort Erie	46 Parisian Products	No-egg. Egg sub-stitute. Egg Powder Com-	81074
" 16	"	" 81075 Balfour, Smye & Co., Mc-Nabb St., N. Hamilton.	56 Rola Products, Montreal.	ound. Equal to two dozen eggs. No-egg. Egg sub-stitute. Imperial Egg Sub-	81075
" 17	"	" 81076 Lumsden Bros., 82 McNabb 3 " St. Hamilton.	35 Parisian Products	stitute. Imperial Egg Sub-	81076
		" 81077 The Arede, James St., N. 3 cans. Hamilton.	60 Holtrock & Co., Birmingham, Eng.	stitute.	21077

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DISTRICT OF HAMILTON—Concluded.												
1918 Jan. 17	Egg Powder . . .	81078	Peebles, Hobson & Co., Ltd., 3 cans. King and Market Sts., Hamilton.	75	The Canadian Egg Save Co., Ltd., To- ronto.		Eggs save	Eggs Artificially coloured.	None	81078		
" 17 "	" . . .	81079	W. R. Badge, 171 John St., 3 pkgs. S. Hamilton.	75 C. T. Morrissey & Co., Chicago.			Eggs, Artificially coloured.	Concentrated Egg.	"	81079		
" 18 "	" . . .	81080	Duff Stores, Ltd., 216 York St., St., Hamilton.	(60) Alfred Bird & Sons, Ltd., Birmingham, Eng.			Eggs, Artificially coloured.	Less than one. Not made from eggs.	81080			
" 16	Cream of Tartar Substitute. . . .	81084	Imperial Cocoa & Spice Co., 3 "	25 Vendors			Eggs, Artificially coloured.	Cream Tartar Com- pound.	1	81084		
" 18 "	" . . .	81085	McLaren's, Ltd., Park and 3 "	45	"		"	Less than one.	81085			
" 17	Self Raising Flour. . . .	81083	The Arcades, James St., N. 1 pkg. Hamilton.	15 White Swan Spice & C., Ltd., Toronto.			"	"	81083			
" 17 "	" . . .	81084	Peebles, Hobson & Co., Ltd., 1 "	15 "			"	"	81084			
" 17 "	" . . .	81086	A. G. Bain & Co., 89 King St., E., Hamilton.	15 Bard & Co., Hamil- ton.			Red Ribbon Brand.	"	81086			
" 18 "	" . . .	81086	R. Doiding, 298 York St., 1 "	15 Aunt Jemima Mills Co., St. Joseph, Mo. Hamilton.			"	"	81086			
DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR												
Jan. 16	Egg Substitute. . .	65384	Wyckoff & Gafny, London. 3 pkgs.	60	Alfred Bird & Sons, Birmingham, Eng.					65384		
17	Baking Powder . . .	65388	Mitchell's Grocery, London. 3 tins.	56	E. Gillett & Co., To- ronto.					65388		

one.	10 Egg Substitute.	65389	U.S.A.	Birmingham, Eng.
17 Baking Powder.	65388	Mitchell's Grocery, London, 3 tins.	56 E. Gillett & Co., Toronto.	56 E. Gillett & Co., To-
				ronto.

1 Self Raising Flour.	65389	"	"	45 White Swan S. & C., Ltd.
1 Baking Powder.	65391 W. H. Kerr & Son, London.	3 tins.	36 I. X. L. Spice Co., London.	Maple Leaf Brand.
" 17 "	65393 Janes & Trepte, London.	3 "	30 Ego B. P. Co., Hamilton.	Ego.
" 18 "	81292 Legg & Garthstone, London.	3 "	45 I. X. L. Spice Co., London.	Sweetheart.
" 18 Egg Substitute.	81293 Alfred Johnson, London.	3 pkgs.	45 Parisian Products Co., Fort Erie.	No egg yolks.
" 22 Baking Powder.	81294 J. W. McKenzie, London.	3 tins.	60 I. X. L. Spice Co., London.	Loyal.
" 22 "	81295 W. B. Hallanc, London.	3 "	30 Gorman Eckert Co., London.	Forest City.
" 22 "	81297 G. B. Drake, London.	3 "	46 Drake's Own Maple Leaf.	"

DISTRICT OF MANITOBA—J. B. COOGROVE, INSPECTOR.

Jan. 22 Egg Substitute.	79360 W. S. Houston, 1630 Portage Ave., Winnipeg.	3 cans.	60 Alfred Bird & Co., Birmingham, Eng.	Less than 79360
" 23 Baking Powder.	79361 T. W. Badger, 1036 Main St., Winnipeg.	3 "	45 White Star Mfg. Co., Winnipeg.	79361
" 28 Self Raising Flour.	79362 Hudson's Bay Co., Winnipeg.	3 pkgs.	45 Aunt Jenima Mills Co., St. Joseph, Mo., U.S.A.	79362
" 29 Baking Powder	79363 C. F. McMillie, 900 Portage Ave., Winnipeg.	3 cans.	30 Old Standard Mfg. Co., Winnipeg.	79363
" 29 "	79364 C. G. Carter, 887 Westminster Ave., Winnipeg.	3 "	75 Black Woods Ltd., Winnipeg.	Carter's Pure.
" 29 "	79365 H. F. McKinley, 801 Westminster Ave., Winnipeg.	3 "	45 Ego B. P. Co., Hamilton.	"
" 30 "	79366 I. Brunstein, 148 Higgins Ave., Winnipeg.	3 pkgs.	36 Black Woods Ltd., Winnipeg.	"
" 30 "	79367 W. H. Morgan, 130 Higgins Ave., Winnipeg.	3 "	45 E. W. Gillett, Toronto.	"
" 31 "	79368 J. W. Weight, 820 St. Matthews Ave., Winnipeg.	3 "	76 Blue Ribbon Co., Ltd., Winnipeg.	Manufactured for Vendor.
" 31 "	79369 E. A. Whaley, 843 Ellice Ave., Winnipeg.	3 "	45 Manitoba F. M. Co., Hamota, Man.	"
Feb. 1 Self Raising Flour.	79370 W. H. Stone Co., 648 Main St., Winnipeg.	3 "		Bake-light Brand.

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		No. of Sample.	Quantity.	Quantity.	Manufacturer.	Furnisher.	Arsenic Parts per Million.	No. to be used.
DISTRICT OF MANITOBA—Concluded.								
1918.								
Feb.	7 Baking Powder.	79708 H. E. Weldon, 383 Portage 3pkgs.	75 Royal B.P. Co., New Jersey.	75 Royal B.P. Co., New Jersey.	75 Royal B.P. Co., New Jersey.	75 Royal B.P. Co., New Jersey.	Less than one.	79769
"	7 "	79710 W.J. Robinson, 867 Ave. Winnipeg.	"	75 Hamilton C. & S. Ltd., Hamilton.	"	"	"	79719
"	11 "	79720 J. B. Coyle, 1118 Main St., Winnipeg.	"	1:50 Equal Egg Co., Vancouver.	"	"	"	79720

DISTRICT OF SASKATCHEWAN L. H. HALL, J. M. DANIS, INSPECTORS.								
Feb.	1 Egg Powder...	83010 The Colonial Grocery Co., 3pkgs. Regina.	45 Sutcliffe & Bingham, Manchester.	McClure & Langley, Winnipeg.	Kkovah	Less than one.	83010	
"	"	83011 The Regina Trading Co., " Regina.	45 Equal Egg Co., Ltd., Vancouver.	Cameron & Heap, Re-	Equal-Egg.	"	83011	
"	12 Cream of Tartar Substitute.	83016 Campbell, Wilson & Strath-3 cans. dec, Regina.	60 Caverly Plumer C., Lynn, Mass.	Wilson & Tinsdale, Win-	Circle R. Brand.	"	83016	
"	11 Baking Powder.	83014 McLean Grocery Co., Ltd., Regina.	60 No Vary Products Mfrs. Co., Toronto.	No Vary "	"	"	83014	
"	"	83015 Cameron & Heap, Ltd., Regina.	60 Imperial C. & S. Co., Hamilton.	Trian "	"	"	83015	
"	"	83017 A. MacDonald Co., Ltd., Regina.	65 Blue Ribbon, Ltd., Winnifield.	Blue Ribbon Brand "	"	"	83017	
"	"	83019 Stephen Bros, Regina.	75 H. R. MacKinnon Co., Ltd., Winnipeg.	Melrose Brand	"	"	83019	
Jan.	23 "	81815 R. J. McClinton, North Battleford.	75 Gold Standard Mfg. Co., Winnipeg.	"	"	"	81815	
"	25 Self Raising Flour.	81816 R. J. McClinton, North Battleford.	60 Aunt Jamims Mills Co., St. Joseph, Mo. U.S.A.	"	"	"	81616	

can.	"	
"	25 Self Raising Flour.	

81816 R.	Battleford.	North Battleford.

25 Baking Powder.	81818 Tarbel Bros., North Battleford.	3 cans.	75 Egg B. P. Co., Hamilton.	3 cans.	75 Egg B. P. Co.,	3 cans.	75 Egg B. P. Co.,	3 cans.	75 Egg B. P. Co.,	3 cans.	75 Egg B. P. Co.,	3 cans.	75 Egg B. P. Co.,	3 cans.	75 Egg B. P. Co.,	3 cans.	75 Egg B. P. Co.,	3 cans.	75 Egg B. P. Co.,	3 cans.	75 Egg B. P. Co.,	3 cans.	75 Egg B. P. Co.,	3 cans.	75 Egg B. P. Co.,	3 cans.		
" 20 Egg Powder....	81820 Pickel & Johnston, North Battleford.	"	60 Alfred Bird & Sons, Ltd., Birmingham, Eng.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
" 31 Self Raising Flour.	81822 D. Jones, North Battleford.	3 pkgs.	6 Aunt Jemima Mills Co., St. Joseph, Mo. U.S.A.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
" 31 Baking Powder.	81823 D. Jones, North Battleford.	3 cans.	75 Blue Ribbon, Ltd., Winnipeg.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
F. V. 6 "	81824 White Star Grocery, Saskatoon.	"	75 H. L. MacKinnon, Winnipeg.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
6 Egg Powder....	81826 White Star Grocery, Saskatoon.	"	1-50 Equal Egg Co., Ltd., Vancouver.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
" 6 Baking Powder.	81830 A. Wolshaw & Son, Saskatoon.	"	40 White Star B.P.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
" 6 "	81831 The Allied Store, Saskatoon.	"	70 Vendors.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
" 8 "	81834 Hock & Kast, Rothesay.	"	30 Zoki Sisudar, Mfg. Co., Winnipeg.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
" 8 "	81835 J. Kevanea, Rothesay.	0	60 E. W. Gillett Co., Toronto.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	

DISTRICT OF VANCOUVER—G. G. ARMYTAGE, INSPECTOR.

Jan.	23 Baking Powder.	76227 J. A. Lowe, 1002 Seymour St., Vancouver.	3 cans.	60 W. H. Malkin Co., Ltd., Vancouver.	"	"	0-2	76257
" 25 Equal Egg.	76228 T. A. Brown, 1192 Hastings St., E., Vancouver.	3 " "	75 Equal Egg Co., Vancouver.	"	"	None	76258	
" 29 Egg Baking Powder.	76229 Annandale Supply Co., New Westminster, B.C.	3 "	75 Egg B. P. Co., Hamilton.	"	"	25	76259 Adulterated by excess arsenic.	
" 29 Egg Substitute..	76230 C. A. Welsh, Ltd., New Westminster, B.C.	3 "	60 Alfred Bird & Sons, Ltd., Birmingham, Eng.	"	"	None	76260	
Feb.	6 Self-Raising Flour.	76231 S. T. Waller, 44 Hastings St., W. Vancouver.	3 pkgs.	20 The Puget Sound Flour Mills Co., Tacoma, Wash.	"	"	2	76261 Maximum limit for arsenic.
" 6 Pancake Flour..	76232 David Spencer, Ltd., Hastings St., W. Vanc.	3 "	30 Moffet Flour Co., Vancouver.	"	"	"	4	76262 Excess arsenic—Adulterated.
" 7 Baking Powder	76233 Duke's Grocery, Hastings & Gore, W. Vanc.	3 "	45 White Star Mfg. Co., Winnipeg.	"	"	"	5	76263 "